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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/824,538	04/02/2001	Antti Toskala	944-003.077	9435	
4955	7590 09/23/2005		EXAM	EXAMINER	
WARE FR	ESSOLA VAN DER S	NGUYEN, HANH N			
ADOLPHSON, LLP BRADFORD GREEN BUILDING 5 755 MAIN STREET, P O BOX 224 MONROE, CT 06468			ART UNIT	PAPER NUMBER	
			2662		
			DATE MAILED: 09/23/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicatio	n No.	Applicant(s)		
	09/824,538	3	TOSKALA, ANTTI		
Office Action Summary	Examiner		Art Unit		
	Hanh Ngu	yen	2662		
The MAILING DATE of this communical Period for Reply			orrespondence address		
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communi - If the period for reply specified above is less than thirty (30) d - If NO period for reply is specified above, the maximum statute - Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION. If CFR 1.136(a). In no ever cation. ays, a reply within the statut orry period will apply and will. by statute, cause the applic	nt, however, may a reply be time ory minimum of thirty (30) day, expire SIX (6) MONTHS from eating to become ARANDONE	nely filed s will be considered timely. the mailing date of this communication.		
Status					
1) Responsive to communication(s) filed of	on <u>Response filed o</u>	n 6/20/05.			
2a)⊠ This action is FINAL . 2b)□ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice	under <i>Ex part</i> e Qua	yle, 1935 C.D. 11, 45	3 O.G. 213.		
Disposition of Claims					
4)⊠ Claim(s) <u>1-28</u> is/are pending in the app	lication.				
4a) Of the above claim(s) is/are		sideration.			
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-28</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restrictio	n and/or election re	quirement.			
Application Papers					
9)☐ The specification is objected to by the E	yaminer				
10) The drawing(s) filed on is/are: a		inhiected to by the F	- - - -		
Applicant may not request that any objectio					
Replacement drawing sheet(s) including the					
11)☐ The oath or declaration is objected to by					
Priority under 35 U.S.C. § 119	·		102.		
_					
12) Acknowledgment is made of a claim for	foreign priority unde	er 35 U.S.C. § 119(a)	-(d) or (f).		
a) ☐ All b) ☐ Some * c) ☐ None of:			•		
1. Certified copies of the priority documents have been received.					
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 					
			d in this National Stage		
application from the International * See the attached detailed Office action for			4		
	or a not or the certific	od opies not receive	u.		
•					
Attachment(s)					
1) U Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-	948)	l)			
3) 🔀 Information Disclosure Statement(s) (PTO-1449 or PTC	D/SB/08)	5) D Notice of Informal Pa	atent Application (PTO-152)		
Paper No(s)/Mail Date 9/9/02. S. Patent and Trademark Office		6)			
TOL 202 (D	Office Action Summary	F	Part of Paper No./Mail Date 9/20/05		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 5, 7-11, 15-17, 19 and 21-25 and are rejected under 35 USC 102(e) as being anticipated by Willenegger et al. (Pat.6,775,254 B1).

In claims 1, 7, 15 and 21, Willenegger et al. discloses, in Fig.3, a method comprising the steps of receiving digital user data bits (fig.3, voice/data partition 332a which may have any number of bits, col.6, lines 54-60, is generated by voice/data source 412a in fig.4) for transport on the DPDCH, receiving first digital control bits (fig.3, TPC, TFCI and pilot information) related to the DPDCH for transport on the DPCCH (downlink dedicate channel DPCH, col.5, lines 32-40), receiving second digital control bits (fig.3, high speed packet data partition 334 and its control bits generated by pac ket data source 412b in fig.4, col.3, lines 45-50, col.14, lines 40-45) related to a high speed downlink packet access (HSDPA) common channel (HS-DSCH) (downlink share channel, col.5, lines 30-42), and multiplexing the digital user data bits, the first digital control bits and the second digital control bits for transport on the downlink DPCH (voice/data, paqcket data, pilot data, TPC data and TFCI data are provided to TDM mux 416 that multiplexes the data into one data stream, see figures 3, 4 & col.9, lines 50-55).

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In claims 2, 8, 16 and 22, Willenegger et al. discloses multiplexing the second digital control bits into one or more slots of a frame of the downlink DPCH (the high speed packet data 334 occupies a portion in slot 330 of frame k, see col.fig.3, col.8, lines 12-22).

In claims 3, 9, 17 and 23, Willenegger et al. discloses multiplexing the second digital control bits into the one or more slots of a frame of the downlink DPCH along with selected first digital control bits (see fig.3, high speed packet data 334 in slot 330 is multiplexed with TPC, TFCI and pilot data).

In claims 5, 11, 19 and 25, Willenegger et al. discloses the one or more slots of a frame of the downlink DPCH used for the second digital control bits are variable in number within repetitive frames (see fig.3, slots 330, 340 describe packet data 344 is allocated either ½ slot or ¾ slot depending on different spreading factor, see col.8, lines 23-34 & col.5, line 62 to col.6, line 3).

In claims 10 and 24, Willenegger et al discloses the means for multiplexing (TDM mux 413, fig.4) multiplexes the digital user data bits (voice/data partition 342a) into a slot of a frame (slot 330 of frame k of the downlink DPCH along with the second digital control bits (high speed packet data). See col.8, lines 12-22.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4, 6, 12-14, 18, 20, 27 and 28 are rejected under 35 USC 103(a) as being unpatentable over Willenegger et al. (Pat.6,775,254 B1).

In claims 4, 6, 12, 13, 14, 18, 20, 26, 27 and 28, Willenegger et al. discloses, in fig. 3, repetitive frames k-1, k and k+1 wherein frame k contains slot I with packet data partition 334. Willenegger further discloses when the frame is longer than 10msec, data may be interleaved over 1, 2, 4 or 8 radio frame periods (multiplexing data bits owith repetitive frames, see col.14, lines 15-25). Willeneggeer does not disclose the one or more slots of a frame used for the second digital control bits are fixed in a same position or variable in position within repetitive frames. Based on the interleaving of data bits within repetitive frames, it is strongly believed to enable any person skilled in the art to allocate control bits in the same slot (position) or different slot (position) within repetive frame is well known in the art. Multiplexing high speed packet data with voice/data in a slot is benefit to concurrently broadcast information at high rate on downlink channel to multiple mobile stations.

Response to Arguments

Applicant's arguments filed on 6/20/05 have been fully considered but they are not persuasive.

As explained by Applicant on page 2 of the Remark, the digital control bits related to high speed downlink packet access (HSDPA) common channel is carried on a dedicated channel, i.e., a channel different from the HSDPA common channel, wherein the dedicated channel is a dedicated slot in a frame available for HSDPA signaling. Meanwhile, the

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claimed limitation does not specifically address whether the digital control bits related to HSDPA is carried on a dedicated channel, but instead addresses receiving the digital control bits related to a HSDPA common channel. Therefore, examiner relies on Willenegger et al. in order to interpretes, in fig.3, the digital control bits related to HSDPA (packet data 334); the digital user data bits (voice 332a) and the first digital control bits (TPC and TFCI) related to the DPDCH for transport on the DPCCH are received and multiplexed in one common channel (one slot of the frame in fig.3). Further, it is suggested that the claimed language of "common channel" be modified to avoid the vague.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh Nguyen whose telephone number is 571 272 3092. The examiner can normally be reached on Monday-Friday from 8AM to 5PM. The examiner can also be reached on alternate

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou, can be reached on 571 272 3088. The fax phone number for the organization where this application or proceeding is assigned is 571 273 8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hanh Nguyen

HANH NGUYEN
PRIMARY EXAMINER